

Bureau of Rec problems.

In 1920 the Heber Plant on the Provo River was rebuilt and connected to the Heber Power & Light system. For fifteen years this plant was operated with very little trouble from ice, and none from rocks. When freezing weather started, the screens were pulled up and were not put back until the spring runoff started. In 1945 the Bureau of Reclamation started dredging the river to carry Heber and Duchesne water. From 1945 to the present time we have been in continuous trouble.

Prior to 1945, ice jams and mush ice were unheard of. Since that time we have had several ice jams that have pushed the dam out, filled the forebay with ~~to~~ rock and brush, and tons of rock entered the pipeline, which has been a continuous source of trouble to the present time. Much of this rock is still in the line, and from time to time rocks loose and plug the water wheels and gates. If a rock happens to be in the gate when the governor calls for a shut down, it means a runaway, which has happened ~~several~~ ~~more~~ than ~~several~~ times.

The Bureau of Reclamation and the water users were aware of the damage the river was causing, but still continued to dredge and put more water in the channel than it was capable of carrying. The water user personnel said all they had to do was get the water, and their lawyers would take care of the rest. The water user helped clean the channel above the forebay a couple of times, which was timeable to get the water through in

~~to~~ additional water from the
Duchesne and Weber, ~~set~~ the banks
of the Provo River to such an extent,
that a great many more trees, brush
and acres of sod were cut loose
and made it almost impossible
to keep a constant flow of water in
our pipe line.

July 30, 1951 - Coils burned in #1
Feb. 15, 1952 Coils burned in #2
Nov. 7, 1952 Coils burned in #1
Jan. 12, 1949 Coils burned in #2
May 10, 1941 - #1 Burned - New winding
July 5, 1942 - #2 Burned - New winding
Feb. 3, 1942 #2 Runner repaired. Einco.

1953 - Operation shows what the plant will do when the river bed was not molested the fall before.
1946 - Nov. 5 - Bureau of Rec. cleaned pond with cat.
1950 - Mar. 11 - New shaft in #1

1944 - Crook - Moulton Horner, Bonner to April
1945 - Horner, Moulton, Thacker, Crook
1946 - Horner - Thacker - Moulton, Crook
1950 - Ralph Giles, Grant Giles, Moulton - Ryan

1942 (P) Two Weller wheels - St. Morgan Smith Comeco.
1948 July 25. NO-2. Shafft Broken Pickling N18ND

48 Feb 9 '48 - Shaft repaired

48 March 3 Broken Gate lever

48 March 31 Another Broken Gate

Dec 22-48 - NO-2 Broken Shaft.

1949 Mar. 2. 3 Broken Gate lever

1949 Mar. 31 - Broken Gate lever NO-2

Mar. 6-1950. Shaft broke

Mar. 28-1949 - Broken Gate lever

Feb. 18-1949 - Broken Shaft

1950-51-52-53 Lunders & May

April 15, 1958 - Broken Shaft.

Mar 21 1958 Shaft & End Bell (Lunders & May)

May 12, 1960 Shaft broken.

(1960) - Cetofore from Japan - 0961

1954. No major trouble, other than rocks in the gates, was caused until September 16th when the Bureau of Reclamation or Water Users began dredging the river.

Loss of power and extra labor to clean screens, and machines. \$500.00

1955

May - 16000 K.W.H. @ .64 — \$96.00
125 K.W. @ 81.60 on Utah River 200.00
Extra Labor cleaning screens & Machines 1.00
\$974.00

June - 69200 K.W.H. @ .64 — 415.20
6 ad K.W. on peak @ 1.60 — 960.
Labor — 300

Rocks washed in Forebay continued to cause trouble during July, August, & Sept. Hard to estimate actual damages. \$1675.20

October ~~25th~~

25th Water users working in river, ~~Boats~~ machines off because of trash.
~~485 K.W. @ 81.60~~ \$776.00

November

5th Boats - machines off line because of trash.

~~485 K.W. @ 81.60~~ \$776.00
Labor cleaning screens & Machines - 1.00

1955

Dec.

23rd River loaded with trash.
~~Both machines off but not out of peak.~~

1956

From Feb. 1 to 9th the plant was shut down most of the time, due to mush ice and brush.

The tail race was blocked solid from the plant to the Provo River. This had to be blasted with powder in order to get the water through. At the same time the inside of the plant was flooded by water and mush ice. The east end of plant, brush ice being six ft deep in the

The bottom, two feet of the generator was flooded with water. On April 4th No 1 generator burned out several coils, which were in the flooded area.

Damage for Feb

98000 K.W.H @ .64	588.00
600 K.W. @ \$1.60 on peak	960.00
48 days labor @ \$1.00 (line crew)	768.00
Heber City Employees	171.40
100 Gall. fuel oil	14.00
2 Oil Burners	42.00
100 lbs of Powder & caps	34.00
	\$2575.40

The day of this trouble - H.C. Clegg and Sherman Giles, inspected the Provo River and Weber Canal, and found that the mush ice was coming from the Weber Canal. The Provo River was

1956.

3rd Screens plugged with trash.
5th River full of trash
7th #2 machine off to clean
8th Intake & screens plugged.
9th No 2 machine off.
10th No 2 "
11th No 2 "
12th No 2 "
13th Both machines off 2 hours
caused by work in river
14th - No 2 off line to remove rocks from gates.
20th No 2 off to clean
23rd No 2 "
27th No 2 " "

20000 K.W.H. @ .6¢

280 K.W. @ \$1.60

\$120.00
448.00

1957

Jan.

1st No 2 Machine off line to clean
9th No 2 " " " " "
24. No 2 " " " " "
31. No 2 " " " " "

Feb.

4. Screens plugged. Down to 280 K.W.
No 2 machine off to clean.
14 - No 2 " " " "

During Nov. Dec. 1956 and Jan. Feb.
1957 it was necessary to put screens
down and hire man to keep them
clean

Labor

\$750.00

Fuel Oil

1400

1956

May 21st to 27th

Forebay full of rocks.

60000 KWH @ .64	362.40
580 K.W. on peak @ \$1.60	928.00
24 days labor @ 16 ⁰⁰ (Line crew)	384.00
Ferris Clegg (Labor)	180.00
	<hr/>
	1854.40

May 27th to June 27th

Forebay still full of rocks

212000 K.W.H. @ .64	1272.00
495 K.W. @ \$1.60	792.00
48 days labor (Line crew)	768.00
	<hr/>
	3832.00

May 28th

10th - Not machine full of trash
17th Screen plugged with trash
20th Ice Jam, Both machines down
Started between floodland and
Fitzgarrell Ranch.
River dredged from Weber canal to
Clydes Ranch

800 K.W. @ 1.60	960.00
36000 K.W.H. @ .64	216.00

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495 KWH @ 1.60	792.00
48 days labor (Line Crew)	768.00

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~~May 27th to June 27th~~

10th - 11th machine full of trash

17th Screen plugged with trash

20th Ice Jam. Both machines down
Started between floodland and
Fitzgerald Ranch.
River dredged from Weber canal to
Clydes Ranch

800 KWH @ 1.60	960.00
36000 KWH @ .64	216.00

1957-

During May and June it was necessary to hire extra help to keep trees out of roadway.

Cost of labor _____ \$500.00

July 3rd

Water cut off from Weber without notice.

300 K.W. @ 1.60	_____	\$480.00
21000 K.W.H. @ .44	_____	<u>129.00</u>
		609.00

High water in spring of 1956 and 1957 cut new concrete dam down to reinforcing steel. Rocks coming through acted like a ball mill on the concrete.

Dam built new in Nov. 1954 at a cost of \$5000.00

Upper end of settling pond is now filled with rocks and trees. This diverted the water around the north bank, which kept most of the rocks out of the roadway.